# **Haoying Zhang**

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in LinkedIn Profile | Github (Master projects) | GitLab (PhD projects)

Palaiseau, Ile de France - 91300, France

PhD student with expertise in privacy-enhancing technologies with time series data. I am looking for a research visit starting in February 2026, or a post-doc starting in August 2026, based in Montreal or its surrounding area, in Canada.

#### **EDUCATION**

Inria de Saclay and INSA

September 2023 - August 2026

Palaiseau, France

PhD in Computer Science (Expected)

• Privacy-Enhancing Technologies with Time Series

• Supervisors: Benjamin Nguyen, Nicolas Anciaux

September 2018 - Juin 2023

Rennes, France

Institut National des Sciences Appliquées (INSA)

Engineering Master's Degree (Double Degree with Master of Research in Cybersecurity)

 $\circ$  Major: Computer Science

o Grade: 15.17/20 (Rank: 3/74)

### **EXPERIENCE**

• ENSTA Paris [

 $September\ 2023-Present$ 

Palaiseau, France

Teaching Assistant

- Taught Oracle Database to second-year engineering students
- $\circ \ Prepared \ materials \ (VMs, servers) \ and \ supported \ students \ with \ exercises \ and \ individual \ problem-solving$
- $\circ$  Co-supervised an master student's research internship at Inria

• INSA CVL [�] Feburary 2023 - August 2023
Research Intern Bourges, France

• Research internship with topic "Privacy-Preserving Graph Processing"

• Developed a framework called PUZZLE to compute PageRank on large distributed graph in a privacy-preserving way (with Differential Privacy guarantee)

NAGRA NexGuard [ ]

May 2022 - August 2022

Intern

Rennes, France

- Engineering internship with topic "High Performance Computing for Forensic Watermarking Algorithms"
- Implemented Single Instruction Multiple Data (SIMD) architectures with vector processors on x86 and ARM
- Integrated SIMD architectures into forensic watermarking algorithms to achieve high performance on multiple platforms

• **Huawei** [�]

Intern

July 2021 - September 2021

Beijing, China

• Engineering internship with topic "Routing Protocol Testing"

- Learnt 8+ TCP/IP routing protocols
- Designed the topologies and implemented automatic tests

### **PUBLICATIONS**

C=CONFERENCE, J=JOURNAL, S=IN SUBMISSION

- [J.1] Haoying Zhang, et al. (2025). TELESAFE: Detecting Private/Work Boundary Crossings in Energy Consumption Trails in Telework. In VLDB Endowment, pp. 1565 - 1578. ACM. 29 August 2025. DOI: 10.14778/3725688.3725690
- [C.1] Haoying Zhang, et al. (2025). **Demo: Exploring Utility and Attackability Trade-offs in Local Differential Privacy**. Accepted for publication in *CCS* 2025.
- [C.2] Haoying Zhang, et al. (2026). **Privacy Attacks on Matrix Profiles via Reconstruction Techniques**. Accepted for publication in *PETS* 2026.
- [S.1] Haoying ZHang, et al. (2026). **Demo of TELESAFE: Monitoring Energy Consumption for Work–Life Boundaries in Telework.** Accepted for publication in *ICDM* 2025.

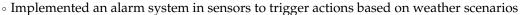
## SKILLS

- Programming Languages: Assembly, C, C++, Python, Java, OCaml, Perl, Ruby, JavaScript, PHP
- Database Systems: MySQL, Oracle
- Machine Learning: Classification algorithms, RNNs, CNNs, GANs, etc
- Cloud & Containerization: Docker, Kubernetes
- DevOps: Git

# **PROJECTS**

• Mycelium September 2021 - Juin 2022

Tools: Embedded system, C++, LoRaWAN, Raspberry Pi, Docker, Kubernetes





- Developed a Kubernetes-based fog infrastructure on a Raspberry Pi cluster for storing and processing sensor data transmitted via LoRaWAN, enabling monitoring of natural environments in Rennes
- · Collaborated with scientists and engineers from Geosciences Rennes and Clermont-Ferrand University

## • Exchange Rate Reminder

August 2020

Tools: Python, InfluxDB

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- Developed a web-scraping application with data processing and storage in InfluxDB
- Implemented an email notification system triggered by exchange rate drops

• Chessboard game August 2020

Tools: JavaFx



## VOLUNTEER EXPERIENCE

## • Mathematics and Physics Tutor

September 2018 - Feburary 2019

INSA

• Tutored fellow students in mathematics and physics through classes and Q&A sessions

## · Volunteer at the Planetarium

August 2014

Beijing Planetarium

• Guided visitors through exhibits and provided telescope demonstrations

# **ADDITIONAL INFORMATION**

**Languages:** Chinese (Mother tongue), French (Fluent: DELF B2, 85/100), English (Fluent: TOEIC, 945/990) **Interests:** Snowboarding, Badminton, Running, Astronomy